

## ALIGNMENT



## Blast 2 Sequences results

PubMed

Entrez

BLAST

OMIM

Taxonomy

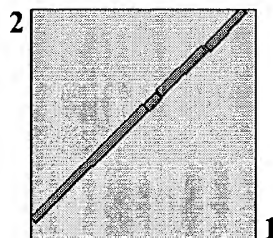
Structure

## BLAST 2 SEQUENCES RESULTS VERSION BLASTP 2.2.6 [Apr-09-2003]

Matrix: BLOSUM62 gap open: 11 gap extension: 1  
 x\_dropoff: 50 expect: 10.000 wordsize: 3 Filter ☒ Align

Sequence 1 gi 21438399 dps [Corynebacterium glutamicum] Length 165 (1 .. 165)

Sequence 2 gi 232021 DNA protection during starvation protein. Length 167 (1 .. 167) *E. coli*



NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

Score = 97.4 bits (241), Expect = 2e-19

Identities = 58/154 (37%), Positives = 88/154 (56%), Gaps = 4/154 (2%)

10 = 30 nucleotides

```

Query:          4  YTVPGINENDAKQLIDGLQERLTDYNDLHLILKHVHWNVTGPNFIHAVHEMLDPQVDLVRG 63
                  YT  +++++ K  ++ L  ++  + DL LI K  HWN+ G NFIHAVHEMLD  +
Sbjct:         16  YTRNDVSDSEKKATVELLNQRVIQFIDLITKQAHWNMRGANFIHAVHEMLDGFRTALID 75
Conflict:       68
Helical region  59
Hydrogen bonded turn 57
Beta-strand region 55
Hydrogen bonded turn 53
Helical region  23
Conflict:       18
DPS            16  ++++++
Query:         64  YADEVAERISTLGGAPVGTPEGHVADRTPLQ-YERNAGNVQAHLTDLNRVYTQVLTGVRE 122
                  + D +AER  LGG +GT +  + +TPL+ Y  + NVQ HL +L  Y  V  VR+
Sbjct:         76  HLDTMAERAVQLGGVALGTTQ-VINSKTPKLSYPLDIHNVQDHLKELADRYAIVANDVRK 134
Helical region  95
Hydrogen bonded turn 87
Helical region  76
DPS            76  ++++++
Helical region  114
Beta-strand region 113
Query:        123  SMASAGPVDPVTEDIYISQAAELEKFQWFIRAH 156
                  ++ A  D  T DI  ++ +L+KF WFI ++I
Sbjct:        135  AIGEA--KDDDTADILTAASRDLDKFLWFIESNI 166
Helical region  135
DPS            135  ++++++
Hydrogen bonded turn 165
Helical region  142
  
```

CPU time: 0.04 user secs. 0.01 sys. secs 0.05 total secs.

Lambda	K	H
0.317	0.136	0.400

## Gapped

Lambda	K	H
0.267	0.0410	0.140

Matrix: BLOSUM62

Gap Penalties: Existence: 11, Extension: 1

Number of Hits to DB: 216

Number of Sequences: 0

Number of extensions: 21

Number of successful extensions: 3

Number of sequences better than 10.0: 1

Number of HSP's better than 10.0 without gapping: 1

Number of HSP's successfully gapped in prelim test: 0

Number of HSP's that attempted gapping in prelim test: 0

Number of HSP's gapped (non-prelim): 1

length of query: 165

length of database: 770,911,529

effective HSP length: 120

effective length of query: 45

effective length of database: 770,911,409

effective search space: 34691013405

effective search space used: 34691013405

T: 9

A: 40

X1: 16 ( 7.3 bits)

X2: 129 (49.7 bits)

X3: 129 (49.7 bits)

S1: 41 (21.6 bits)

S2: 71 (32.0 bits)

## WEST Search History

DATE: Wednesday, April 07, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L5	L4 and l2	22
<input type="checkbox"/>	L4	dps! or pexb!	2490
<input type="checkbox"/>	L3	L1 same (coryneform or corynebacteri\$)	13
<input type="checkbox"/>	L2	L1 and (coryneform or corynebacteri\$)	274
<input type="checkbox"/>	L1	dps or pexb	34014

END OF SEARCH HISTORY

09/955315  
STN Search Summary

=> d his

(FILE 'HOME' ENTERED AT 17:05:05 ON 07 APR 2004)

FILE 'CAPLUS' ENTERED AT 17:05:13 ON 07 APR 2004

L1 842 S DPS OR PEXB

L2 5 S L1 (P) (CORYNEFORM OR CORYNEBACTER?)

L2 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:930873 CAPLUS

DN 140:13726

TI Fermentative lysine production by Corynebacterium glutamicum with  
feed-back resistant aspartate kinase lysC gene

IN Brigitte, Bathe; Caroline, Kreutzer; Bettina, Mockel; Georg, Thierbach

PA Degussa A.-G., Germany

SO U.S. Pat. Appl. Publ., 63 pp., Cont.-in-part of Appl. No. PCT/EP02/08464.  
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2003219881	A1	20031127	US 2003-358405	20030205
	WO 2003040373	A2	20030515	WO 2002-EP8464	20020730
	WO 2003040373	A3	20031218		
PRAI	US 2001-309878P	P	20010806		
	WO 2002-EP8464	A2	20020730		

L2 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:377055 CAPLUS

DN 138:380500

TI Protein and nucleic acid sequence of aspartate kinase gene lysC and  
production of chemical compounds by fermentation from Coryneform bacteria

IN Bathe, Brigitte; Kreutzer, Caroline; Moeckel, Bettina; Thierbach, Georg

PA Degussa AG, Germany

SO PCT Int. Appl., 127 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2003040373	A2	20030515	WO 2002-EP8464	20020730
	WO 2003040373	A3	20031218		
	US 2003219881	A1	20031127	US 2003-358405	20030205
PRAI	US 2001-309878P	P	20010806		
	WO 2002-EP8464	A2	20020730		

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:133441 CAPLUS

DN 138:182049

TI Enhanced L-lysine production from Corynebacterium glutamicum strains  
bearing two copies of lysCFBR gene

IN Bathe, Brigitte; Kreutzer, Caroline; Moeckel, Bettina; Thierbach, Georg

PA Degussa AG, Germany

SO PCT Int. Appl., 109 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2003014330	A2	20030220	WO 2002-EP8465	20020730
	WO 2003014330	A3	20031218		
	US 2004043458	A1	20040304	US 2003-358393	20030205
PRAI	US 2001-309877P	P	20010806		
	WO 2002-EP8465	A1	20020730		

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:240813 CAPLUS

DN 136:278218

TI Sequences of dps gene from corynebacteria and use thereof in production of L-lysine

IN Bathe, Brigitte; Kreutzer, Caroline; Rieping, Mechthild; Marx, Achim; Farwick, Mike; Pfefferle, Walter

PA Degussa A.-G., Germany

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2002024737	A1	20020328	WO 2001-EP10523	20010912TG
	DE 10046623	A1	20020328	DE 2000-10046623	20000920
	AU 2002012232	A5	20020402	AU 2002-12232	20010912
	EP 1319019	A1	20030618	EP 2001-980373	20010912
	US 2002106760	A1	20020808	US 2001-955315	20010919
PRAI	DE 2000-10046623	A	20000920		
	WO 2001-EP10523	W	20010912		

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:172440 CAPLUS

DN 136:215519

TI Procedure for the fermentative production of L-amino acids using coryneform bacteria

IN Molenaar, Douwe; Van Der Rest, Michel Eduard; Mockel, Bettina

PA Germany

SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U. S. Ser. No. 436,362, abandoned.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2002028490	A1	20020307	US 2001-852157	20010510
	DE 19912384	A1	20000921	DE 1999-19912384	19990319
PRAI	DE 1999-19912384	A	19990319		
	US 1999-436362	B2	19991109		